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Key

5.1 p 836-837

6, 9, 10, 12, 18, 21, 22, 23, 25, 27

6. $-2x^6$ 9. $-m^{24}$ 10. $\frac{1}{x^6}$ 12. -81 18. 3 21. $\frac{1}{9}$ 22. $-\frac{1}{9}$ 23. x^3 25. 1.6289×10^{17} 27. 4.284×10^{-10}

5.2 1-6, 9, 10, 14, 15, 23

1. yrs, 2 2. yrs, 3 3. yrs, 3
4. yrs, 2 5. no 6. no9. $-11x^2 + 2x + 36$ 10. $5x^2 + 12x + 10$ 14. $12x^9 + 4x^8 - 4x^6 - 28x^5$ 15. $8x^2 + 2x - 21$ 23. $16x^2 - 24x + 9$

5.3 2, 8 (long) 11 (synthetic)

2. $\left(\frac{-3}{vw} + 1 \right)$

11. $\frac{7}{2} \mid \begin{array}{r} 8 \quad -56 \quad 98 \\ \underline{28 \quad -98} \\ 8 \quad -28 \quad 0 \end{array}$

$$\frac{1}{2} (8k - 28)$$
$$\boxed{4k - 14}$$

$$\begin{array}{r} 8g^2 - 5g + 3 \\ 8. \quad g + 3 \overline{) 8g^3 + 19g^2 - 12g + 9} \\ \underline{-8g^3 - 24g^2} \\ 15g^2 - 12g \\ \underline{-15g^2 + 45g} \\ 3g + 9 \\ \underline{-3g + 9} \\ 0 \end{array}$$